

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE ENTRANCE OF THE HOLLYWOOD VOLUNTEER FIRE HOUSE AT MD 235; ALSO, THE INSTALLATION OF OPTICOM FIRE HOUSE PRE-EMPTION FOR SOUTHBOUND MD 235 AT THE INTERSECTIONS OF MD 245, WILDEWOOD PARKWAY AND AIRPORT ROAD IN ST. MARY'S COUNTY. MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THIS INTERSECTION SHALL OPERATE IN THE FLASHING MODE WITH NORTH AND SOUTHBOUND MD 235 FLASHING YELLOW AND OLD THREE NOTCH ROAD AND RESCUE LANE FLASHING RED. WHEN PRE-EMPTED, NORTH AND SOUTHBOUND MD 235 SHALL GO FROM FLASHING YELLOW TO QUICK FLASH YELLOW THEN RED AND OLD THREE NOTCH ROAD FROM FLASHING RED TO SOLID RED WITH RESCUE LANE CHANGING FROM FLASHING RED TO FLASHING YELLOW.

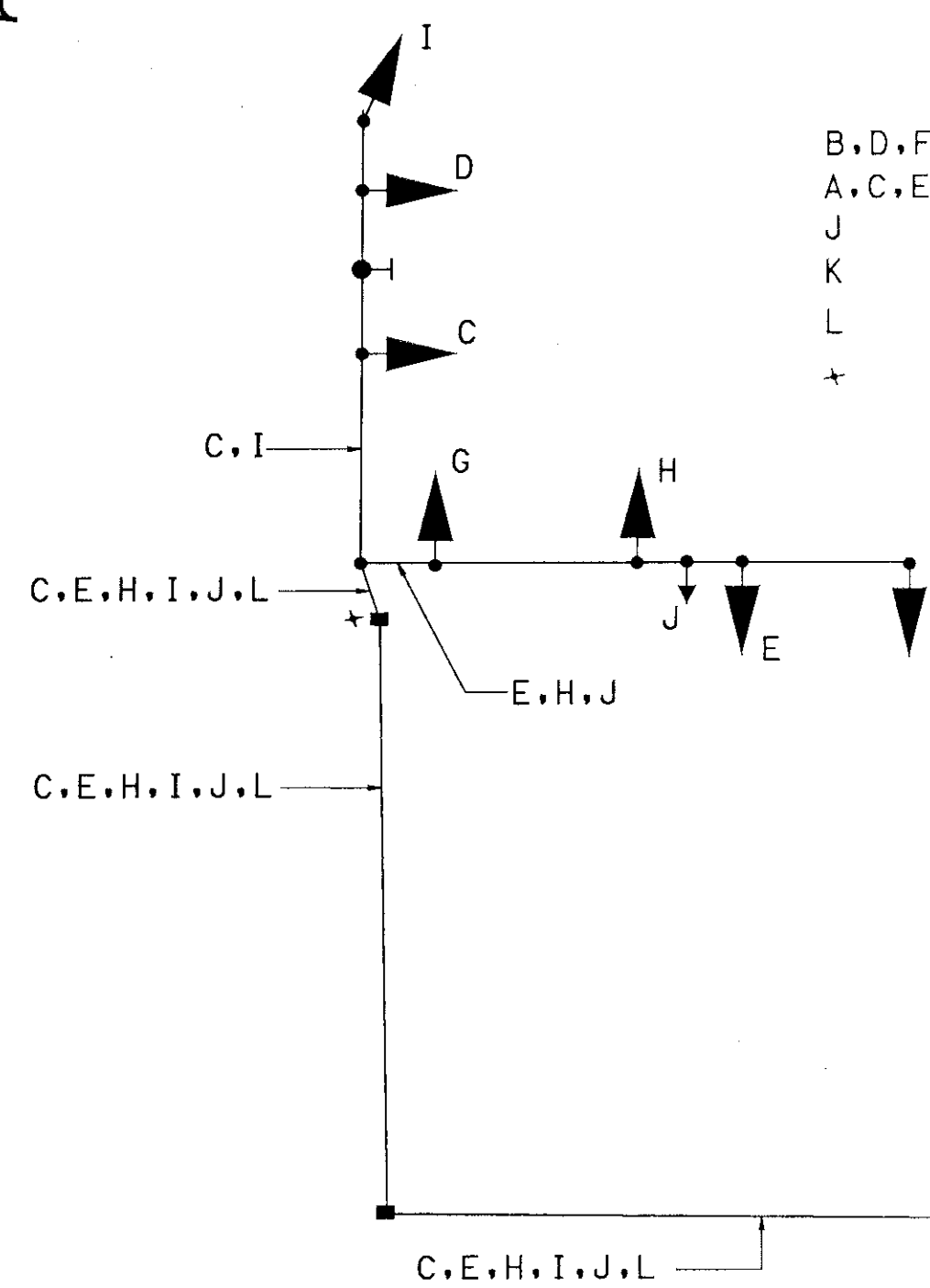
EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM	QUANTITY	DESCRIPTION
68 SF		SHEET ALUMINUM SIGNS CONSISTING OF:
2 EA		W11-8(1) SIGN, 72" X 36", MAST ARM MOUNTED HARDWARE
2 EA		W11-8 SIGN, 48" X 48" GROUND MOUNTED HARDWARE
1 EA		CABINET POLE MOUNT WITH ASC II CONTROLLER
1 EA		27 FT STEEL POLE & SINGLE MAST ARM (50 FT)
1 EA		27 FT STEEL POLE & TWIN MAST ARM (60 FT/50 FT)

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2001	3 CY	TEST PIT EXCAVATION
5004	84 LF	24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6003	200 LF	TRAFFIC BARRIER W BEAM
6005	1 EA	SPECIAL TRAFFIC BARRIER W BEAM END TREATMENT TYPE "D"
6006	30 EA	TRAFFIC BARRIER W BEAM POST NORMAL 6' LENGTH
8001	10 CY	FURNISH & INSTALL CONCRETE FOR SIGNAL FOUNDATION
8012	4 EA	FURNISH & INSTALL 3M OPTICOM #721 DETECTOR EYE
8013	4 EA	FURNISH & INSTALL 3M OPTICOM #760 CARD RACK
8014	4 EA	FURNISH & INSTALL 3 OPTICOM #762 DISCRIMINATOR MODULE
8015	3 EA	FURNISH & INSTALL 3M OPTICOM EMITTER SYSTEM 500 SERIES, VISIBLE LIGHT FILTER & HARDWARE
8019	1 EA	INSTALL CONTROLLER & CABINET - POLE MOUNT
8027	40 LF	FURNISH & INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8029	120 LF	FURNISH & INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-BORED
8030	120 LF	FURNISH & INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8033	3 EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
8034	3 EA	FURNISH & INSTALL GROUND ROD-3/4" DIAMETER X 10' LENGTH
8037	1139 LF	FURNISH & INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE
8044	220 LF	FURNISH & INSTALL ELECTRICAL CABLE-5 CONDUCTOR (NO 14 AWG)
8045	720 LF	FURNISH & INSTALL ELECTRICAL CABLE-7 CONDUCTOR (NO 14 AWG)
8048	30 LF	FURNISH & INSTALL NO.6 AWG STRANDED BARE COPPER GROUND WIRE
8049	60 LF	FURNISH & INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG THHN/THWN
8051	64 LF	FURNISH & INSTALL WOOD SIGN SUPPORTS 4" X 6"
8052	32 SF	INSTALL GROUND MOUNTED SIGN
8053	36 SF	INSTALL OVERHEAD SIGN
8055	1 EA	FURNISH & INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8056	1 EA	FURNISH & INSTALL 15' LIGHTING BRACKET ARM FOR SIGNAL STRUCTURE
8066	1 EA	FURNISH & INSTALL CONTROL & DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3-WIRE SYSTEM)
8069	1 EA	FURNISH & INSTALL PHOTOCELL
8074	1 EA	INSTALL STEEL POLE AND SINGLE MAST ARM (50FT)
8075	1 EA	INSTALL STEEL POLE AND TWIN MAST ARM (60FT/50FT)
8084	18 EA	FURNISH & INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION MAST ARM MOUNT
8085	6 EA	FURNISH & INSTALL 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION MAST ARM MOUNT



WIRING LEGEND

B, D, F, G, I = 5 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG
A, C, E, H = 7 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG
J = 4 CONDUCTOR OPTICOM DETECTOR CABLE
K = 2 CONDUCTOR ELECTRICAL CABLE NO. 12 TYPE TC
L = STRANDED BARE COPPER GROUND WIRE NO. 6 AWG
+ = GROUND ROD - 3/4" DIAMETER X 10' LENGTH

PHASE CHART

1	2	3	4	5	6	7	8	9
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)

Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
Operation										

Firehouse Pre-Emption	R	R	R	R	FL/Y	FL/Y	R	R	R	R
Pre-Emption Clearance	R	R	R	R	Y	Y	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET MD 235 AND OLD THREE NOTCH ROAD/RESCUE LAND AT HOLLYWOOD VOLUNTEER FIRE DEPARTMENT	
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	DRAWN BY: GLYNIS	F.A.P. NO. AC-STPG-00051686JE
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	CHECKED BY: BRUCE THOMPSON	S.H.A. NO. 3965
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	SCALE: 1" = 20'	COUNTY: ST. MARY'S
	DIRECTOR, TRAFFIC & SAFETY	DATE: OCTOBER 29, 1999	LOG MILE: 1823502-21
			T.I.M.S. NO. D 338
			SHEET NO. 2 OF 2